

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/658,759	09/08/2000	Naoyuki Wada	04329.2400	3255	
22852	7590 02/24/2005		EXAM	INER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			JUNTIMA, NITTAYA		
LLP			ADTIBUT	DA DED MUNICIPA	
901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			ART UNIT	PAPER NUMBER	
			2663		
				DATE MAILED: 02/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		/				
	Application No.	Applicant(s)				
	09/658,759	WADA, NAOYUKI				
Office Action Summary	Examiner	Art Unit				
	Nittaya Juntima	2663				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed vs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>17 S</u>	eptember 2004.					
· · · · · · · · · · · · · · · · · · ·	action is non-final.					
<i>'</i> =						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) 11-13 is/are withdraw	4a) Of the above claim(s) 11-13 is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>14</u> is/are allowed.	5)⊠ Claim(s) <u>14</u> is/are allowed.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.	☑ Claim(s) <u>1-10</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 17 September 2004 is/s	10)⊠ The drawing(s) filed on <u>17 September 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Motice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) 🗌 Other:	•				

Application/Control Number: 09/658,759

Art Unit: 2663

DETAILED ACTION

Page 2

1. This action is in response to the amendment filed on 9/17/2004.

2. The objection to the drawings and specification are withdrawn in view of applicant's

amendment.

3. The allowable subject matter indicated for claims 1-6 and 9 in the previous Office

action dated 6/17/2004 is withdrawn. Presently, claims 1-3 are rejected under 35 U.S.C

102 (e), claims 4-10 are rejected under 35 U.S.C. 112, second paragraph, and claims 4-6 and 9

are rejected under 35 U.S.C 103 (a).

4. Claim 14 is allowed as indicated in the previous Office action dated 6/17/2004. Claims

11-13 are cancelled as per applicant's amendment.

Specification

5. The disclosure is objected to because of the following informalities: referring to Fig. 12,

the specification on page 16, Il 18-21 states that the filtering downstream information is received

by the reception I/F 308 and supplied to the CPU 31. However, it would be comprehensible if

"308" is changed to "37" since the reception I/F 308 in Fig. 12, page 16, ll 6-15, is not directly

connected to CPU 31, rather the reception I/F 37 is.

Appropriate correction is required.

Claim Objections

6. Claims 1, 3, 4, 7-8, and 14 are objected to because of the following informalities:

- in claim 3, Il 2, "RF" should be spelled out to avoid any misinterpretation:

- in claim 4, ll 10, "second" should be changed to "first" in order to be consistent

Art Unit: 2663

with items 115 and 123 in Fig. 10;

- in claim 7, ll 21, "upstream" should be changed "transmitted" in order to be consistent with a function of the second reception interface as recited in lines 10-11 of the claim and Fig. 12;
- in claim 8, ll 20, "first" should be changed to "second" in order to be consistent with a function of the second reception interface as recited in lines 10-11 of the claim and Fig. 13.
- in claim 14, ll 14, "client" should be changed to "server," see items 115 and 123 in Fig. 10.

in claims 1 and 4, "configured to/for" should be changed. An alternative to the suggested change would be a written confirmation stating that the claimed element performs the actual function following "configured to/for." It has been held that the recitation that an element being "configured to/for" perform a function is *not* a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

7. he following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 4, line 7, the word "means" is preceded by the word(s) "filter" in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function. However, since no function is specified by the word(s) preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See *Ex parte Klumb*, 159 USPQ 694 (Bd. App. 1967). The office is now treating the limitation "filter means" as "a filter unit."

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

9. Claims 1-3 and are rejected under 35 U.S.C. 102(e) as being anticipated by McClard (USPN 6,438,752 B1).

Regarding claim 1, as shown in Fig. 2, McClard teaches a communication system (a cable television network 30) comprising:

A transmitting apparatus (head-end server 34) for sending multiplexed program data (video and audio signals in program signals 32) and transmitting a schedule table (program information in program signals 32) indicating a schedule of data to be transmitted to a receiving apparatus, in a communication network (a cable television network 30) connecting with a transmitting apparatus (head-end server 34) and a receiving apparatus (set-top box 38). See col. 4, 11 23-45.

A receiving apparatus (set-top box 38) for transmitting request information (a second input signal from user indicating that the current channel is not acceptable and requesting to select another channel) indicating which program is being viewed/listened. See Fig. 1, col. 3, ll 33-53 and col. 4, ll 49-51.

A filter unit (tuner 60, Fig. 3) for changing a filtering characteristic of itself based on the schedule table (program information in program signals 32) received from the transmitting apparatus (head-end server 34) and the request information (a second input signal) received from the receiving apparatus (set-top box 38), such that data (program on another channel) specified by the request information is transmitted to the receiving apparatus. See col. 3, ll 44-53 and col. 6, ll 16-27 and 41-54.

Regarding claim 2, it is inherent that the program data must be multiplexed by TDMA and FDM since different video/audio signals are transmitted at different time and on different channels, col. 4, ll 27-32 and 35-39.

Regarding claim 3, the communication network, i.e. the cable television system 30 in Fig. 2, must be an RF communication network.

Art Unit: 2663

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baran (USPN 5,870,395) in view of McClard (USPN 6,438, 752 B1), and further in view of Laubach et al. ("Laubach") (USPN 6,075,972).

Regarding claim 4, Baran a communication system (Fig. 3) comprising:

A first transmitting/receiving apparatus (a head end 140) for transmitting multiplexed program data (TV signals transmitted on the downstream feeder cable 8) to a second transmitting/receiving apparatus (subscriber interface unit 70), to a filter unit (a filter 60). See col. 5, ll 16-48.

The second transmitting/receiving apparatus (subscriber interface unit 70) for transmitting data (600 MHz signal transmitted from subscriber interface unit 70) to the first transmitting/receiving apparatus (the head end 140). See col. 5, ll 61-col. 6, ll 5.

The filter unit (a filter 60) for filtering data (TV signals) transmitted from the first transmitting/receiving apparatus (the head end 140) and for filtering data (600 MHz signal transmitted from subscriber interface unit 70) transmitted from the second transmitting/receiving apparatus (subscriber interface unit 70) to the first transmitting/receiving apparatus (the head end 140). See col. 5, ll 43-48, 61-col. 6, ll 5.

However, Baran fails to teach (i) the first transfer schedule table information which is transmitted by the first transmitting/receiving apparatus, received by the filter unit, and used by the filter unit in filtering data transmitted from the first transmitting/receiving apparatus, and (ii) the second transfer schedule table information which is transmitted by the first transmitting/receiving apparatus, received by the filter unit, and used by the filter unit in filtering data transmitted from the second transmitting/receiving apparatus as recited in the claim.

Regarding (i), McClard teaches a first transfer schedule table information (program information) transmitted from the head end server 34 in Fig. 4 to a set-top box 38 for indicating a schedule of the program data (col. 4, ll 27-32 and 35-39).

Given the teaching of McClard, it would have been obvious to one skilled in the art at the time the invention was made to modify the teaching of Baran to include the first transfer schedule table information indicating a schedule of the program data such that it would be transmitted by the first transmitting/receiving apparatus (head end 140, Fig. 3 of Baran), received by the filter unit (a filter unit 60, Fig. 3 of Baran), and used by the filter unit in filtering data transmitted from the first transmitting/receiving apparatus recited in the claim. The motivation/suggestion to do so would have been to indicate to the end user, e.g. TV viewer, the running period and the content category of each program available during a particular time frame (McClard, col. 4, ll 36-39).

Regarding (ii), Laubach teaches a second transfer schedule table information (grant message 402) concerning data to be transmitted from a modern 112 to a head end controller 102, Fig. 4 (col. 10, ll 47-60).

Art Unit: 2663

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify the combined teaching of Baran and McClard to include the second transfer schedule table information concerning data to be transmitted from the second transmitting/receiving apparatus to the first transmitting/receiving apparatus such that it would be transmitted by the first transmitting/receiving apparatus (head end 140, Fig. 3 of Baran), received by the filter unit (a filter unit 60, Fig. 3 of Baran), and used by the filter unit in filtering data transmitted from the second transmitting/receiving apparatus (subscriber interface unit 70) as recited in the claim. The motivation/suggestion to do so would have been to assign appropriate upstream slot(s) to the end user as taught by Laubach (col. 10, ll 52-60).

12. Claims 5-6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baran (USPN 5,870,395) in view of McClard (USPN 6,438, 752 B1), and further in view of Laubach et al. ("Laubach") (USPN 6,075,972) and Anderson, Jr. et al. ("Anderson, Jr.") (USPN 6,226,794 B1).

Regarding claims 5 and 9, as shown in Fig. 3, Baran teaches that the first transmitting/receiving apparatus (the head end 140) transmits downstream data (TV signals) transmitted from the first transmitting/receiving apparatus (the head end 140) to the second transmitting/receiving apparatus (subscriber interface unit 70) (col. 5, ll 16-33), and the second transmitting/receiving apparatus transmits the upstream data (600 MHz signal transmitted from subscriber interface unit 70) to the filter unit (a filter 60) (col. 5, ll 16-48).

However, Baran fails to teach (i) schedule data for the downstream data, (ii) schedule data for upstream data which is multiplexed with one frequency, (iii) transmitting by the filter unit the schedule data for the downstream data, (iv) transmitting by the filter unit the schedule

Application/Control Number: 09/658,759

Art Unit: 2663

data for the upstream data to the second transmitting/receiving apparatus, and (v) transmitting the upstream data to the first transmitting/receiving apparatus, and (vi) transmitting information for filtering the downstream data by the filter unit to the filter unit as recited in the claims.

Regarding (i) and (iii), McClard teaches (i) schedule data which specifies contents of the downstream data by frequency (channel) and time (col. 4, ll 23-39). Given the teaching of McClard, it would have been obvious to modify the teaching of Baran to include (i) the schedule data for the downstream data such that (iii) the filter unit (a filter 60, Fig. 3 of Baran) would transmit the schedule data to the second transmitting/receiving apparatus (subscriber interface unit 70, Fig. 3 of Baran). The motivation/suggestion to do so would have been to indicate to the end user, e.g. TV viewer, the running period and the content category of each program available during a particular time frame (McClard, col. 4, ll 36-39).

Regarding (ii), (iv), and (v), Laubach teaches (ii) schedule data (grant message 402) for transmitting upstream data requested from a modem 112 to a head end controller 102, Fig. 4 which must be multiplexed with one frequency (col. 10, ll 47-60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify the combined teaching of Baran and McClard to include (ii) the schedule data for upstream data which must be multiplexed with one frequency such that (iv) the filter unit (a filter 60, Fig. 3 of Baran) would transmit the schedule data for the upstream data to the second transmitting/receiving apparatus (subscriber interface unit 70, Fig. 3 of Baran) and (v) the upstream data to the first transmitted/receiving apparatus as recited in the claim. The motivation/suggestion to do so would have been to assign appropriate upstream slot(s) to the end user as taught by Laubach (col. 10, ll 52-60).

Art Unit: 2663

Regarding (vi), Anderson, Jr. teaches information (control information from user used in controlling information sent from service provider) for filtering the downstream data (information, e.g. video/audio) (col. 1, ll 60-col. 2, ll 3 and 47-57). Given the teaching of Anderson, Jr., it would have been obvious to one skilled in the art to modify the combined teaching of Baran, McClard, and Laubach to include information for filtering the downstream data such that (iv) the second transmitting/receiving apparatus (subscriber interface unit 70, Fig. 3 of Baran) would transmit the information for filtering the downstream data by the filter unit (a filter 60, Fig. 3 of Baran), to the filter unit. The motivation/suggestion to do so would have been to enable the user to control the information transmitted to the user as taught by Anderson, Jr. (col. 2, ll 47-51).

Regarding claim 6, Baran teaches the filter unit (a filter 60 for filtering upstream data to and TV signals to subscriber interface unit 70, Fig. 3), but fails to teach that the filter unit performs filtering processing according to the schedule data for the upstream data when it does not transmit the upstream data to the first transmitting/receiving apparatus. Laubach teaches schedule data (grant message 402) for upstream data transmitted from a head end controller 102, Fig. 4 (col. 10, ll 47-60). Therefore, it would have been obvious to one skilled in the art to modify the teaching of Baran to include that the filter unit performs filtering processing according to the schedule data for the upstream data when it does not transmit the upstream data to the first transmitting/receiving apparatus as recited in the claim. The suggestion/motivation to do so would have been to maintain a continuous flow of TV signal to the viewer.

Allowable subject matter

Art Unit: 2663

13. Claims 7-8 and 10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

- 14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Lovett (USPN 4,450,477), disclosing a subscriber terminal with filter units (Fig.
 5) and a bi-directional TV information system (Fig. 6).
- Dufresne et al. (USPN 5,126,840), disclosing a two-way CATVE network with filtering system (Figs. 4 and 8).
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nittaya Juntima whose telephone number is 571-272-3120. The examiner can normally be reached on Monday through Friday, 8:00 A.M 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2663

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nittaya Juntima February 22, 2005

RICKY NGO
PRIMARY EXAMINER